Broadband Funding, Infrastructure & Access



PUET Interim Committee May 18, 2021

Utah Broadband Center

Public Utilities, Energy, & Technology Interim Committee

Tuesday, May 18, 2021

Rebecca Dilg
Rural Community & Outreach Manager





THEN: Broadband Outreach Center 2010 – 2018

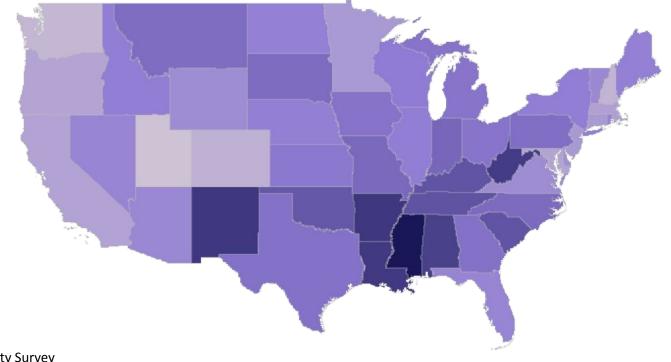
- 2010 Awarded 5-year federal grant
 - Statewide broadband availability map
 - Statewide broadband plan
- 2011 Established Broadband Advisory Council
 - Supported stakeholders for broadband infrastructure
- **2018 Center de-funded**; remained active (part-time)



Internet Connectivity Variables by state

Percent of Utah Households with No Internet Connection: 9.2





2018 U.S. Census American Community Survey



Internet Connectivity Variables by County

Percent of Households with No Internet Access



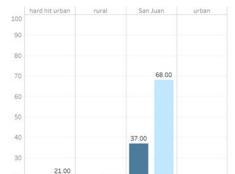
2019 U.S. Census American Community Survey



Utah Statistics Without Broadband Internet

- 10.8% statewide
- 2% more in rural
- 18% urban COVID-19 neighborhoods hard-hit
- 15.8% statewide unemployed
- 47% San Juan County residents
- 78.1% Native Americans in San Juan County

U.S. Census/American Communities Survey - 2018



18.00

15.00

without broadband access by employment status

No Broadband Access And Employed
No Broadband And Unemployed

14.00



Broadband - 2020 to TODAY

- Public wifi availability map during Covid-19 *
- Statewide Broadband Initiative
- UDOT Public WiFi I-84/I-80; 158 miles of fiber
- FCC Emergency Broadband Benefit *
- 2021 General Session Funded Utah Broadband Center
 - \$200K Director/Administration
 - \$10 million state broadband infrastructure grant



CONECTÉMONOS

Trabajos, aulas virtuales, servicios de salud y otras oportunidades lo esperan en línea.

Ahora está disponible la asistencia de Internet en el hogar de hasta \$50.

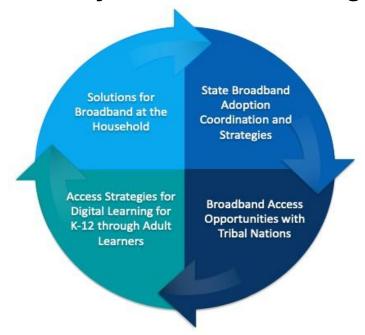
Visite: utahgoed.info/EBB o llame a su proveedor de Internet local para verificar su elegibilidad e inscribirse ahora.





^{*}business.utah.gov/broadband

State Broadband Initiative Four Key Cornerstone Strategies

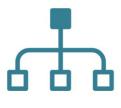


Six Components of Connection





Literacy



Infrastructure



Technical Support



Devices



User Friendly Content



business.utah.gov/broadband/



Utah Education and Telehealth Network





Ray Timothy, Ph.D. CEO/Executive Director

PUET Interim Committee

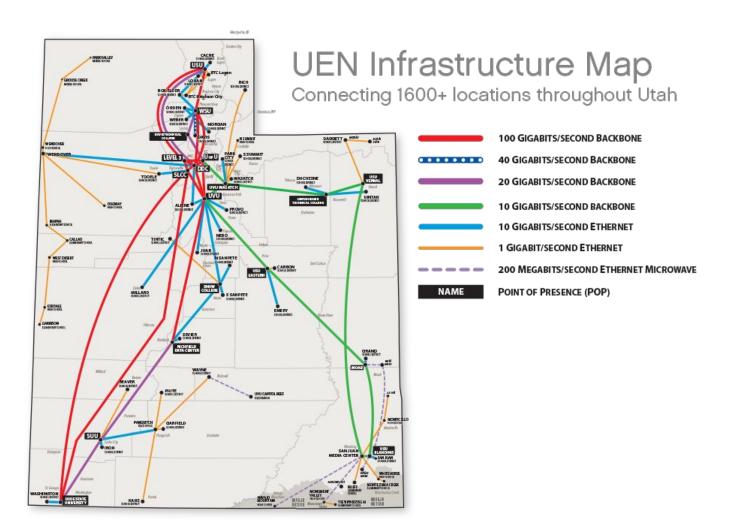






Those whom we serve.



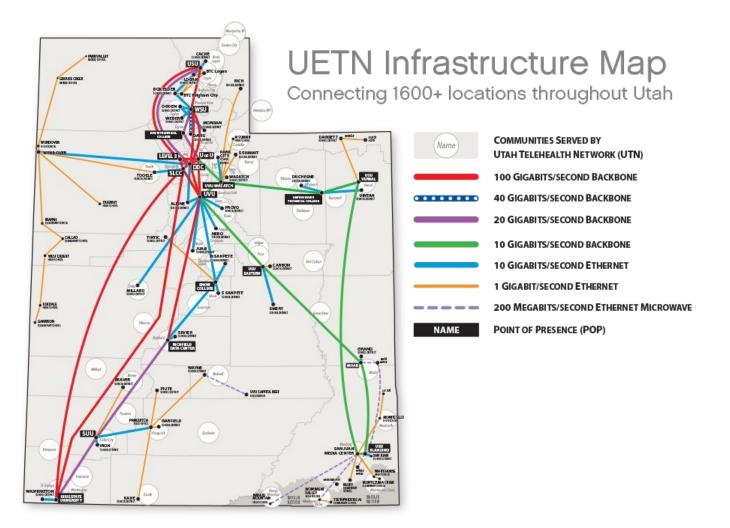


UTN Infrastructure Map

Connecting 1600+ locations throughout Utah



COMMUNITIES SERVED BY
UTAH TELEHEALTH NETWORK (UTN)



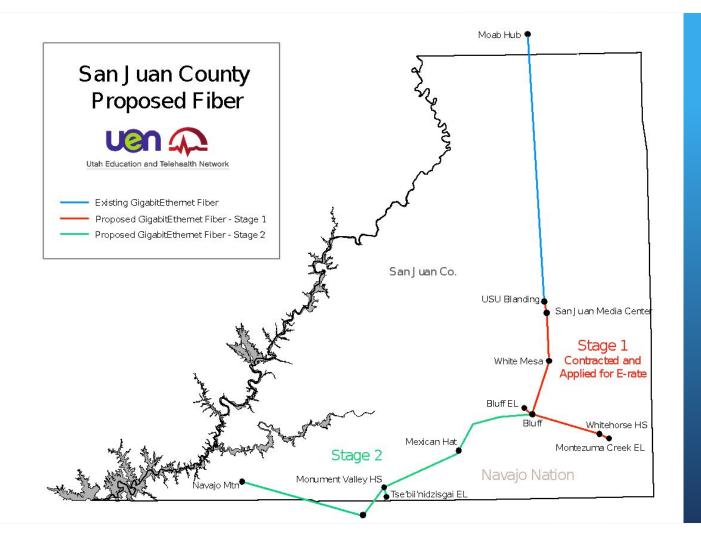
Daggett Project

Daggett County Proposed Fiber Manila High School Flaming Gorge Elementary Daggett Co. Uintah Co. GigabitEthernet Fiber UBATC Vernal









| NEW CIRCUITS AND SITES | CITY |
|-------------------------------------|------------------|
| Ascent Academy of Utah | Saratoga Springs |
| Centro De La Familia | Clinton |
| Desert Canyons Elementary | St George |
| Ellis Elementary (2) | Logan |
| Freedom Preparatory Academy | St George |
| Herriman School | Herriman |
| Horace Mann Elementary | Ogden |
| Micron Middle School (2) | Lehi |
| North Vineyard Elementary (2) | Vineyard |
| Northwest Community Center | Salt Lake City |
| Ogden Preparartory Academy | Ogden |
| Pioneer Adult Rehabilitation Center | Clearfield |
| Polk Elementary | Ogden |
| Redeemer Luther | Salt Lake City |
| South Jordan Elementary | South Jordan |
| South Saratoga Elementary (2) | Saratoga Springs |
| Spectrum Academy | Salt Lake City |
| State of Utah Capital Data Center | Salt Lake City |
| Thomas O Smith Elementary | Ogden |
| Wallace Stegner Academy | West Valley |
| Weber State University | Clearfield |

Questions?

Ray Timothy, Ph.D.

CEO/Executive Director

Utah Education & Telehealth Network

rtimothy@uen.org

435-731-0219 Cell



Utah State Board of Education

Sarah Young, Director of Strategic Initiatives at the Utah State Board of Education



Broadband Access for K-12 families in Utah



- Broadband is essential for K-12 students to access remote learning
- Utah State Board of Education has issued a

 K-12 Broadband/Hotspot Grant to provide up

 to \$5M in awards to local districts and charter schools for the 2020-21 school year



Local Broadband Solutions for K-12

- Partnering with providers for one-year wired broadband service to K-12 households
- Providing hotspots and devices to students
- Piloting LTE chromebooks to students
- Prioritizing technology education for families:
 - Ability to connect to the internet
 - Understanding digital citizenship
 - Guidance on how to connect and engage in digital learning resources from the LEA





Broadband Needs in K-12 Education

- UETN provides broadband to our school buildings
- Remote and blended learning highlighted needs at the household level
- \$5M emergency broadband pilot for K-12 schools in fall 2020



- Increased resources to create flexible digital learning solutions for K-12 students
- Additional personalized teacher professional learning opportunities and broadband support
- Sustainability for digital learning beyond CARES relief funding
- Creation of a state broadband initiative that extends beyond K-12 to meet community needs



Utah





Department of Cultural and Community Engagement

Liz Gabbitas, **Technology and Innovation Coordinator**, **State Library Division**









Broadband

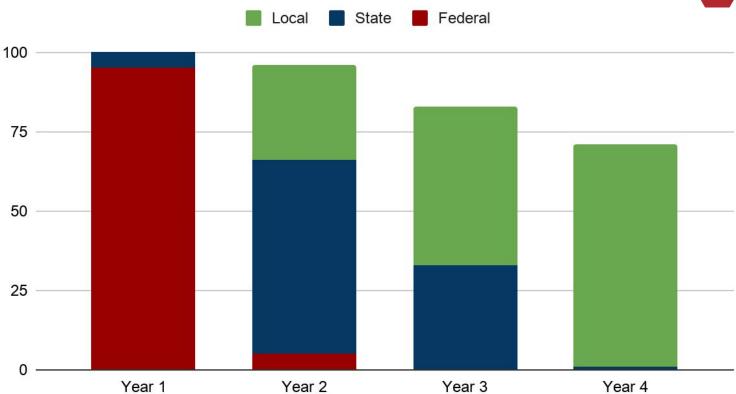
Devices

Literacy



Library hotspot cost sharing







400%

Return on Investment

Based on ~7k GB data use at \$96k est. value per month

"If the pandemic has proved anything, it's that access to digital information... is so important to democracy, freedom of information, and education. [Digital access] programs should be at the forefront of every municipality, library, or educational institution."





Utah Communities Connect

Vikram Ravi, UtahCC Chair Impact & Implementation Coordinator Salt Lake County Regional Development

Olivia Whiteley, UtahCC Co-Chair Western States Advocacy Officer International Rescue Committee





Steering Committee

Shauna Edson, Salt Lake City Public Library

Vikram Ravi, Salt Lake County Regional Development

Jacob Brace, Google Fiber

Krysti Nellermoe, International Rescue Committee

Sean Martin, Salt Lake City

Matt McLain, Salt Lake County Library Services

Turner Bitton, HEAL Utah

Kelleigh Cole, Utah Education Network

Kayla Bradshaw, United Way of Utah County

Joseph Silverzweig, Comcast

Olivia Whitely, International Rescue Committee

Liz Gabbitas, Utah State Library Division

Sarah Young, Utah State Board of Education

Dr. Joy Pierce, University of Utah

Executive Committee

Vikram Ravi, Chair

Turner Bitton, Co-Chair

Olivia Whiteley, Co-Chair

Joseph Silverzweig, Secretary

Shauna Edson, Past-Chair

Member Organizations

Comcast NBCUniversal

ConnectHomeUSA

Google Fiber

International Rescue Committee

Salt Lake County Library

Salt Lake City Public Library

Salt Lake City Corporation

SLCC Community Writing Center

Shelter the Homeless

United Way of Utah County

U.S. Department of Housing and Urban Development

Utah Governor's Office of Economic Development

Utah Non-Profit Housing Corporation

Utah State Library Division



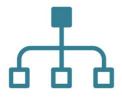


Components of Connection





Literacy



Infrastructure



Technical Support



Devices



User Friendly Content



Meaningful connectivity facilitates economic self-reliance, innovation, lifelong learning, healthy living, human connection, housing stability, and civic participation





Programming for Connection

Subscriptions:

Hotspot Checkout - Salt Lake County Library Services Comcast Internet Essentials Partnership Program -Millcreek City

Devices:

Refurbished Device Organizations - Tech Charities Cooperative Purchasing Agreements - UETN

Digital Literacy Training:

Utah Rural Online Initiative – USU Extension Young Adult Career Pathways – FutureInDesign (FIND)

Technical Support:

Tech Mentors Program – International Rescue Committee CyberSeniors – EPIK Deliberate Digital Digital Navigators – Salt Lake City Public Library; Suazo Business Center

Content:

Web accessibility services & training – WebAIM. USU Center for Persons with Disabilities





5662

5663

5664

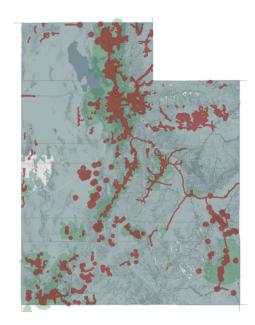
Definition of "Connectivity"

5653 Part 2. Utah Broadband Center 5654 63N-16-201. Utah Broadband Center -- Creation -- Director -- Duties. 5655 (1) There is created within the office the Utah Broadband Center. 5656 (2) The executive director shall appoint a director of the broadband center to oversee 5657 the operations of the broadband center. 5658 (3) The broadband center shall: 5659 (a) ensure that publicly funded broadband projects continue to be publicly accessible 5660 and provide a public benefit: 5661 (b) develop a statewide digital connectivity plan;

(d) administer the Broadband Access Grant Program in accordance with Part 3.

(c) carry out the duties described in Section 63N-16-202; and

Broadband Access Grant Program.

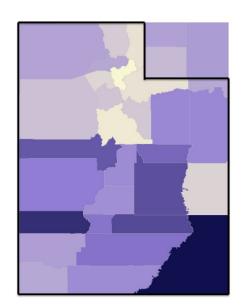


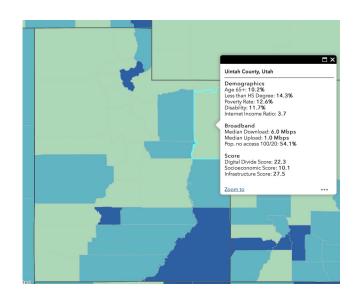


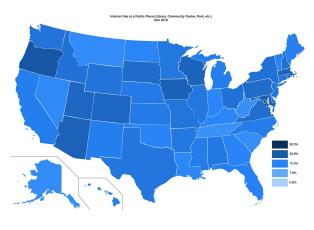




Definition of "Connectivity"











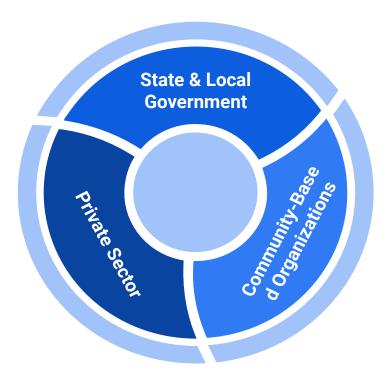




Role of Government in Access

Considerations:

- Maximizing ROI on Infrastructure Efforts
- Utilize Federal Funds for All Components
- Plan and prepare for needs beyond COVID-19
- Coordination between public and private sector





San Juan School District WiFi Project

Ron Nielson Superintendent of San Juan School District

Aaron Brewer Technology Director for San Juan School District